

**Answers:** All forces in kN and moments in kNm

The normal force in a bar positive as a tensile force and negative as a compressive force

1a.  $A_v = 6 \text{ (}\uparrow\text{)}$

$B_h = 6 \text{ (}\leftarrow\text{)}; B_v = 6 \text{ (}\downarrow\text{)}; B_m = 12 \text{ (}\odot\text{)}$

2a.  $A_v = 2 \text{ (}\uparrow\text{)}$

$B_h = 6 \text{ (}\leftarrow\text{)}; B_v = 2 \text{ (}\downarrow\text{)}; B_m = 4 \text{ (}\odot\text{)}$

3a.  $A_v = 6 \text{ (}\uparrow\text{)}$

$B_h = 6 \text{ (}\leftarrow\text{)}; B_v = 0; B_m = 0$

4a.  $A_h = 6 \text{ (}\rightarrow\text{)}; A_v = 1,5 \text{ (}\uparrow\text{)}; A_m = 10,5 \text{ (}\odot\text{)}$

$B_v = 1,5 \text{ (}\downarrow\text{)}$

5a.  $A_v = 0$

$B_h = 0; B_v = 6 \text{ (}\uparrow\text{)}; B_m = 12 \text{ (}\odot\text{)}$

6a.  $A_v = 4 \text{ (}\uparrow\text{)}$

$B_h = 0; B_v = 2 \text{ (}\uparrow\text{)}; B_m = 4 \text{ (}\odot\text{)}$